

**SINCUS  
news**

since 1982-----LAST ISSUE  
the newsletter of the Sinclair Computer Users Society  
1229 Rhodes Road, Johnson City, New York 13790

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**SINCUS CONTINUES TS Support!**

One of the main reasons we support S.N.U.G. is the declining TS user population. Fewer users have fewer dollars to spend supporting various TS publications. If most User groups go all out for S.N.U.G., support it with articles, and a subscription per member, then it will succeed, where several will fail. There are few vendors, one (?) national publication and about 25 user groups. Remaining users have to unite now or it will be extremely difficult to start up a national group a couple of years down the road. Today, Write to S.N.U.G. Paul Holmgren, 5231 Wilton Wood Ct., Indianapolis, IN 46254. Send him your opinion, ideas and membership support. Send a SASE for replies.

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Product news: Jack Dohany, 435 Woodward Way, Athens, GA 30606 (404)543-5309 is selling the last of the Zebra Disc systems, and he sells WordMaster (use with a 2068 with a spectrum emulator), with add-ons that make a word processor into a desktop publisher. Send a SASE for more info.

SNU6Fest is now history as I write this, will have to await further news from goers. ...Larry Kenny is still working on a DTP, and spell checker, he has many irons in the fire... Sinc-Link, Toronto U6 put out a beautiful issue, can they keep this up? Not only GOOD looking but filled with many interesting articles!

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**SINCUS GOES MSDOS: Club buys a Lazer Compact XT!**

Election time: May Meet. Winners: President - John Colonna, V.P.- Clyde Tackley, Treasurer- George Penney, Secretary - Paul Hill, Trustees- Don' Lanen, Dave Schoenwetter. The one slate of nominees squeaked in, much to the surprise of all. SINCUS purchased a Laser XT IBM compatible computer for \$199.99. (New ones are also sold thru Sears for about \$499 on sale). The Laser is a factory reconditioned unit sold thru Damark, 6707 Shingle Creek Pkwy, Minneapolis, MN 55430 (1-800-729-9000). It has a 8088 CPU, 512K RAM (expandable to 640K), two speeds - 4.77MHz and 10MHz. A 5.25" floppy disc with connections for a second. Video support of CGA, MDA, EGA and Hercules is built in. An RS232 and a parallel connector is included. A full size keyboard, a joystick port, and a handle for carrying. It isn't portable, no screen, or battery PS, but is Transportable. Good for bringing to the monthly meets. SW support includes, MSDOS3.3, and GW-Basic. Computer Shopper reviewed it in August 1988, mentioned it quite favorably and pointing out that it is almost impossible to expand on this machine, ALMOST being the key word. For about what the TS2068 came out for, one can start into MSDOS with a small investment. Video Technology 550 E. Main St., Lake Zurich, IL 60046-2576 (312)540-8086

Why MSDOS?? There are MSDOS emulators for the QL, the Z88 can tap into the files of MSDOS machines, the TS1000 and TS2068 can now read files from MSDOS disks, and reportedly the newest Clive machine is a MSDOS computer. Currently of 9 active members, 5 are using MSDOS machines. MSDOS isn't the easiest to use or learn but it is popular, and it will be a couple years before it is replaced. There are tons of software, PD, share and commercial. The Sinclair machines are GREAT, they are fun, and they are not found in many businesses, schools, or in very many retail outlets. They make a good home machine, or very good small business calculator/ word processor. But if it breaks down where are ya gona get spares?

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**Our LAST ISSUE...it's been good to know ya!**

Subscribers, if you have any question regarding your refund, let me know, and I will explain how the amount was derived, and if any problem, the difference will be mailed immediately. Thank you for your support, and we hope you will support S.N.U.G., not only with subscriptions, but with articles.

page 1.....NEWS	+	--- Meeting DATES --- 1990 ---
page 2-5.....TS1000 & 2068 tips by Don	+	----- 7pm Vestal Library -----
page 6-10.....Members past and present	+	JUN 20 3rd Wednesday
	+	JUL 18 " "
SUPPORT S.N.U.G. NOW! it maybe your last	+	AUG 15 " "
chance to help yourself and keep support	+	SEP 19 " "
for your favorite computer Alive! Subscribe	+	OCT 17 " "
Write, share your knowledge, your questions	+	NOV 14 2nd Wednesday
and your interest with your fellow TSers!!!	+	DEC 19 3rd Wednesday

## ZX81/TS1000 Tips - by Don Lamen, SINCUS

Tip 19: It's been two or three years that I have been writing these Tips. Are they still helping anyone? If you would like to have them continued please let me know through our Editor Paul Hill.

### TS2068 TIPS

Tip 20: There have been requests for me to write some things for the TS2068. Therefore, here is something to help you to get more use out of Machine Language Utilities.

Unfortunately machine code routines are not always 'relocatable'. This is because there are no relative calls or relative returns and some conditional branching are also not available in relative form.

To start you off I am including a small M.C. routine which is taken from the May/June 86 issue of Time Design Mag. The routine reads the Headers off the Tapes and comes in handy when running programs which access tapes for data. It uses only 193 bytes for the code and three short lines of BASIC for its support, however, it locates at 40000 which is not always the best place for it.

a) First CLEAR 39999. Then type in the following Loader:

```
10 PRINT "Address"; TAB 10; "Machine Code"; TAB 21; "Check-Sum"
20 LET cs = 0: FOR f = 40000 TO 40175 STEP 5: PRINT f;
30 FOR n = 0 TO 5
40 INPUT "Enter Code"; a$: IF VAL a$ < 0 OR a$ > 256 THEN PRINT # 1; "Out of
range...Try again": GO TO 40
50 LET a = VAL a$: PRINT TAB (6 + 4*n-LEN a$); IF n = 5 AND a <> cs THEN PRINT "
ERROR!!!...ReEnter Line": GO TO 30
60 IF n = 5 THEN GO TO 80
70 POKE f, a: LET cs = cs + a:
80 NEXT n: PRINT': NEXT f: PRINT "DONE": BEEP .1,20
```

b) Next load in the following decimal dump including the Check-sums:

ADDRESS	MACHINE CODE					CHECK SUM	ADDRESS	MACHINE CODE					CHECK SUM
40000	62	253	205	48	18	586	40090	192	192	62	32	215	693
40005	17	137	60	205	63	482	40095	17	13	1	205	215	451
40010	7	205	217	17	219	665	40100	156	201	205	183	156	901
40015	255	203	255	211	255	1179	40105	17	190	0	205	215	627
40020	219	244	50	195	92	800	40110	156	62	44	215	43	520
40025	62	1	211	244	221	739	40115	205	228	156	201	175	965
40030	38	8	157	221	229	648	40120	17	226	1	205	63	512
40035	17	17	0	175	55	264	40125	7	62	32	215	62	378
40040	205	252	0	211	225	903	40130	34	215	6	10	35	300
40045	48	242	58	195	92	635	40135	126	254	32	40	3	455
40050	211	244	219	255	203	1132	40140	215	16	247	62	34	574
40055	191	211	255	62	254	973	40145	215	38	157	46	22	478
40060	205	48	18	221	229	721	40150	201	175	229	205	63	873
40065	225	126	254	0	40	645	40155	7	225	62	32	215	541
40070	14	254	3	40	27	338	40160	205	228	156	201	70	860
40075	17	168	60	205	63	513	40165	43	78	229	205	233	788
40080	7	205	190	156	201	759	40170	48	205	161	49	225	688
40085	205	183	156	126	230	900	40175	201	0	0	0	0	201

c) When the Code has all been entered, get rid of all of the BASIC with:

NEW

d) Next enter the following BASIC support:

```
100 CLS: PRINT " (Press BREAK when finished)"
110 RANDOMIZE USR 40000: PRINT
120 RANDOMIZE USR 40014: PRINT: GO TO 120
```

e) Then SAVE your Program with:

```
SAVE "HEADER" LINE 100: SAVE "header" CODE 40000, 176
```

f) The next thing to do is to shut down your computer for a minute. Then turn it back on, load your new program, rewind, press PLAY and read the Headers. Try some other tapes too.

g) Now that we all have the same program to work on, I will try to show you how to move it to any handy spot in memory. Take a good look at the disassembled version below. There is a total of ten instructions that needs to be changed if the machine code is moved to any other address. There is an index address and seven Calls that need to be changed. These instructions I have marked with asterisks. Two other instructions also need changing. They load the HL register pair with an address that depends on the location of the routine. These I have marked with Exclamation points!

The reason for marking these two differently is for the sake of demonstration. When I first wrote the BASIC program to change the necessary address in the instructions I overlooked these two. The result was interesting. Line 65 in the BASIC program, which I'll call "MOVER", adjusts these two lines. Line 60 adjusts the address put into the index register IX and Line 70 adjusts the seven CALLs that needs to be changed. The new location may be either a higher or a lower address than the original location. If the new address is lower than the original one, CLEAR (new address - 1).

The line numbers, of the supporting three lines of BASIC for the Program "HEADER ", doesn't have to be 100, 110 & 120 they can be any three consecutive lines in BASIC.

h) Here is the disassembled "header" routine:

```

                HEADER: Address 4C40 TO 9D07
(40000) 9C40 3EFD          LD A, FD
          9C42 CD3012      CALL 1230, CHAN-OPEN
          9C45 11893C      LD DE, 3C89
          9C48 CD3F07      CALL 073F, PD-MSG
          9C4B CDD911      CALL 11D9, WAIT-KEY
(40014) 9C4E DBFF          IN A, (FF)
          9C50 CBFF          SET 7, A
          9C52 D3FF          OUT (FF), A
          9C54 DBF4          IN A, (F4)
          9C56 32C35C      LD (5CC3), A      ; Store in
          9C59 3E01          LD A, 01          spare byte.
          9C5B D3F4          OUT (F4), A
          9C5D DD21089D      * LD IX, 9D08      ; Points to a
          9C61 DDE5          PUSH IX          copy of the
          9C63 111100      LD DE, 0011      SAVE Command
          9C66 AF           XOR A
          9C67 37           SCF
          9C68 CDFC00      CALL 00FC, RD-TAPE
          9C6B DDE1          POP IX
    
```

```

9C6D 30F2      JR NC, 9C61
9C6F 3AC35C    LD A, (5CC3)      ; Retrieve it!
9C72 D3F4      OUT (F4), A
9C74 DBFF      IN A, (FF)
9C76 CBBF      RES 7, A
9C78 D3FF      OUT (FF), A
9C7A 3EFE      LD A, FE
9C7C CD3012    CALL 1230, CHAN-OPEN
9C7F DDE5      PUSH IX
9C81 E1        POP HL
9C82 7E        LD A, (HL)
9C83 FE00      CP 00
9C85 280E      JR Z, 9C95
9C87 FE03      CP 03
9C89 281B      JR Z, 9CA6
9C8B 11A83C    LD DE, 3CAB
9C8E CD3F07    CALL 073F, PO-MSG
9C91 CDBE9C    * CALL 9CBE
9C94 C9        RET

```

(40085) 9C95 NEXT BYTE 85 bytes

```

(40085) 9C95 CDB79C * CALL 9CB7
9C98 7E        LD A, (HL)
9C99 E6C0      AND C0
9C9B C0        RET NZ
9C9C 3E20      LD A, 20
9C9E D7        RST 10          ; Print a space
9C9F 110D01    LD DE, 010D
9CA2 CDD79C    * CALL 9CD7
9CA5 C9        RET

```

(40102) 9CA6 NEXT BYTE 17 bytes

```

(40102) 9CA6 CDB79C * CALL 9CB7
9CA9 11BE00    LD DE, 00BE
9CAC CDD79C    * CALL 9CD7
9CAF 3E2C      LD A, 2C
9CB1 D7        RST 10          ; Print a Comma
9CB2 2B        DEC HL
9CB3 CDE49C    * CALL 9CE4
9CB6 C9        RET

```

(40119) 9CB7 NEXT BYTE 17 bytes

```

(40119) 9CB7 AF      XOR A
9CB8 11E201    LD DE, 01E2
9CBB CD3F07    CALL 073F, PO-MSG
9CBE 3E20      LD A, 20
9CC0 D7        RST 10          ; Print a Space
9CC1 3E22      LD A, 22
9CC3 D7        RST 10          ; Print a quote

```

```

9CC4 060A      LD B, 0A
9CC6 23        INC HL
9CC7 7E        LD A, (HL)
9CC8 FE20     CF 20
9CCA 2803     JR Z, 9CCF
9CCC D7       RST 10 ; PRINT-A
9CCD 10F7     DJNZ 9CC6
9CCF 3E22     LD A, 22
9CD1 D7       RST 10 ; Print a quote
9CD2 269D     ! LD H, 9D
9CD4 2E16     ! LD L, 16
9CD6 C9       RET
    
```

(40151) 9CD7 NEXT BYTE 32 bytes

```

(40151) 9CD7 AF      XOR A
          9CD8 E5     PUSH HL
          9CD9 CD3F07 CALL 073F, PD-MSG
          9CDC E1     POP HL
          9CDD 3E20   LD A, 20
          9CDF D7     RST 10 ; Print a space
          9CE0 CDE49C * CALL 9CE4
          9CE3 C9     RET
    
```

(40164) 9CE4 NEXT BYTE 13 bytes

```

(40164) 9CE4 46     LD B, (HL)
          9CE5 2B     DEC HL
          9CE6 4E     LD C, (HL)
          9CE7 E5     PUSH HL
          9CE8 CDE930 CALL 30E9, STK-BC
          9CEB CDA131 CALL 31A1, PRINT F.P. NUMBER
          9CEE E1     POP HL
          9CEF C9     RET
    
```

(40176) 9CF0 NEXT BYTE 12 bytes

24 BYTES OF WASTED MEMORY:

```

(40176) 9CF0 00 00 00 00 00 00 00 00
          9CF8 00 00 00 00 00 00 00
          9D00 00 00 00 00 00 00 00
    
```

(40200) 9D08 NEXT BYTE 24 bytes

17 BYTE COPY OF THE HEADER READ OFF THE TAPE:

```

(40200) 9D08 F8 22 48 45 41 44 45 52 ; SAVE "HEADER"
          9D10 22 32 32 32 32 40 9C B0 40000,176
          9D18 00
    
```

(40217) 9D19 NEXT BYTE 17 bytes

TOTAL M.C. BYTES USED by Original Routine = 217

i) Last but not least The Mover Program: Type it in and SAVE it.

```

1 REM ** MOVER **
5 PRINT # 1; AT 1,0; "Reset RAMTOP? (y/n)": PAUSE 0: IF INKEY$ = "Y" OR
INKEY$ = "y" THEN INPUT "CLEAR Address? ";f: CLEAR f
10 DEF FN a(x) = INT (X/256): DEF FN b(X) = X-256*FN a(X): DEFFN c(X) = PEEK X
+ 256*PEEK (X+1): GO TO 30
20 POKE f, FN b(a): POKE f+1, FN a(a): RETURN
30 INPUT "Old Address? ";old: INPUT "New Address? ";new: LET d = old-new
40 INPUT "FILE name? ";n$: INPUT "M.C. Length? ";len
50 BEEP .1,20: PRINT # 1; AT 1,0; "Prepare to load M.C.":PAUSE 100: PRINT AT
10,10; "START TAPE": LOAD n$CODE new
60 FOR f = new TO (new + len): IF PEEK f = 221 THEN LET f = f+1: IF PEEK f = 33
THEN LET f = f+1: LET a = FN c(f): LET a = a-d-24: GO SUB 20: LET f = f+2
65 IF PEEK f=38 THEN LET f = f+1: IF PEEK f = 157 THEN LET a = 256*PEEK f +
PEEK (f+2)-d-24: POKE f, FN a(a): POKE f+2, FN b(a): LET f = f+2
70 IF PEEK f = 205 THEN LET f = f+1: LET a = FN c(f): IF a>(old-1) THEN LET a
= a-d: GO SUB 20: LET f = f+1
80 NEXT f
90 BEEP .1,20: PRINT "DONE": PAUSE 120: CLS: PRINT " To read tape headers GO TO
700": STOP
700 CLS: PRINT " (Press BREAK when finished)"
710 RANDOMIZE USR 49807: PRINT
720 RANDOMIZE USR 49821: PRINT: GO TO 720
j) Now lets make the change! If the new address is LOWER than the old address
(40000) then reset RAMTOP with CLEAR (new address -1), otherwise leave it at 39999.
k) Next load the header reader routine to the new address as follows: LOAD
"header" CODE (new address), 193 <ENTER>. In my example I used: LOAD "header" CODE
49807, 193 <ENTER>: RAMTOP was O.K. at 39999.
l) Here is where we make the changes. Type RUN <ENTER>
m) Try running this program without Line 65 and read some tapeheaders with
it.
n) SAVE your new routine with: SAVE "header" CODE (new address), 193.
o) To use it: LOAD "header" CODE <ENTER>: Then add your three lines of BASIC
support.

```

EXAMPLE: 700 CLS: PRINT " (Press BREAK when finished)"

710 RANDOMIZE USR 49807: PRINT

720 RANDOMIZE USR 49821: PRINT :GO TO 720

p) Note that the second entry point address is higher than the first entry point address by 14.

If you have any questions or comments feel free to write. Please enclose a SASE (in care of SINCUS)if you desire answers. Don is recuperating from a by-pass operation at home. We all hope Don gets well soon and back to the ole keyboards.

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First news I've heard of the just past SMUGComputerFest in Milwaukee, from Frank Davis, it was a BALL. Lots of people he met all the previous meets where there. Not many vendors, (there aren't many left!)but those there made out just fine. The food, people and lodging were great and he reports having had a great time!! Seminars were held on Forth, Robotics, modems, Quill, Computer Intelligence and DTP. Next year Chicago ?? - Maybe...we'll see.

**MEMBERS, Members and more members.....**

After going thru lists from '83 to '90, I found all these names. Some have complete addresses, because they were on disc or tape, the rest were copied from old mailing lists, at a minimum of work. I tried to give credit to those who contributed articles with a small 'c' in front of their name. The 'o' indicates former or present society officer.

I'd like to dedicate this last issue in Rememberance of c Carl Terry and c Bill Tilley.

- o c Wes Brzozowski, 337 JANICE STREET, ENDICOTT, NY 13760 - Wes, one of the charter members of SINCUS, wrote volumes, designed the front and back covers on SN 1984/85, produced "CLONE" and many classes on how this 'thing' works. Thanks Wes, a Large thank you.
  - o c John A. Colonna, 28 GUILFOYLE AVE., BINGHAMTON, NEW YORK 13903 - we finally gotcha Prez! Thanks for all the help, articles and programs and work on the SWAP program.
  - o c Paul A Hill, 1229 RHODES ROAD, JOHNSON CITY, NEW YORK 13790 - a charter member, paid his dues on time, once.
  - o c Don Lamem, RD#3, BOX 3404, WINDSOR, NEW YORK 13865 - wrote almost 1000 tips, for all the help you've been, Thanks Don!
  - o c Carlyle Morris, PO BOX 164, KIRKWOOD, NEW YORK 13795 - another of the charter member gang, yea Carl! finally made it to retirement, now you got the time to PLAY!
  - o c George L. Penney, 13 MEADOW LANE, APALACHIN, NEW YORK 13732 - George, a charter member, has been treasurer so long, I was surprised to find out that you weren't the orginial one! Thanks for all the help and time you have put into SINCUS!
  - o c Dave Schoenwetter, 1335 FARM TO MARKET RD, ENDWELL, N.Y.13760 - Dave is a volunteer fireman, and a charter member, has been involved with SINCUS as a volunteer Doer!, since its beginning, and a major contributor to the TS scene.
  - c Hal Sohn, 212 HAZEL DRIVE, VESTAL, NEW YORK 13850 - a charter member, tape librarian and always there to help out, thanks Hal!
  - o Clyde Tackley, 453 EAST MAINE ROAD, JOHNSON CITY, N. Y. 13790 - past president, charter member, and another all round volunteer.
- I have been surprised at the number of charter members are still with the society, are still active and still "Doing" computers! There were 55 charter members.

----- Current corresponding members-----

William MacDougall, POB 1062 Station B, Willowdale, Ontario	M2K 2T6 Canada
Bret A. Gagnon, 141 North Maple St.	Florence MA 01060
Stuart W. Walton, 31 Pleasant St.	Rowley MA 01969
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Harold Jones, RD #1, Box 378 B1,	Montrose PA 18801
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 Akron OH 44319  
 Cedar Rapids IA 52404  
 Jacksonville AR 72076  
 McKinney TX 75070  
 Brackettsville TX 78832

Thanks Joan, your efforts have graced the pages of many newsletters and appear in nearly ALL the swap efforts now in the swap exchange. Mucho Gracias.

W.C. McGrath, POB 3290,  
 c Richard Hurd, POB 231,  
 c Charles R. Byler, USAFS Misawa, Box 5061

San Ysidro CA 92073  
 Seaside OR 97138  
 APO SF 96519

35-current, with much thanks to the above for your continued support over the years, it has been fun and interesting.

-----local past members-----

to save work, room and the fact that many addresses are way outa date I am just putting the names of most of the former members.

Dave Smith, James Fell, Bill Phalen, John S. and c Stanley W. Livingston, Rodger Pufky, Don Mallinson, M.J. Baker of Johnson City, NY

o c Gary Ennis(Gary was prez for two years, chief cook and bottle washer for SN from 1983 to 1985, programmer, organizer and DOER, much of what we are today, Gary set in motion), Chris Charlier, c Charles and Matt Lecher, Patsy Holmes, Marie Zimmer, Lloyd Shelley of Owego, NY

Chris Muckey, c William Stemples, o c Dick Petrak, Mel Murray, Curtis C. Murray, Hubert A. Kessel Jr., Gerald Knickerbocker, Norm Bergmann, Sue and George Bezushko, Bernard Watson, Michael Hale, Dennis Dale, Beth Karther, Gordon Gottlieb, Leonard Downes, Mary Terry, Violet McHale, Esther Greenmun, James Lamb, Al Lewis, David Roth, George Whitaker, Peter Bealo, James Minor, Marshall Cook, Sam Juriga, Brian Sternberg of Binghamton, NY

c Scott Eddy, o c Gary Cole, Jim Corcoran, Ray Carmine, Doug Hoover, Jay Edwards, Kraig Dunham, o c Glenn Wilson, o John R. Sims(past president) Bill Garrett, Primo Iannone, c Charles D. Koeth, Chuck Ligas, o Bridget Kremenc, Jerry Kendrick, John Nugent, Tom Watson, James Morrell, Mike Banks, Herb Spicer of Endicott, NY

Bill Brosious, Marshall Byer, Jerry Martin, Theo Koranye(Chess match organizer), Frank Theetge, Dick Andreasen, Mike Mittelstadt, Richard Jackson, Tom Winterberger, Frank Buran, Dick Matties, Don Cumming, Mildred Mahon, Bill Wright, Richard N. Matties, Jim and Kathy Jones, Jim Webb of Vestal NY

Dan Dodway, Dean Kirlin(first SN editor), Port Crane, NY; Matthew Higgins, Chenango Forks, NY; Robert Harris, Norwich, NY David Jones, Art Marmillion, Newark Valley, NY; Allen Whittaker, Sidney Center, NY; Calvin Gehen, Candor, NY; Dick Green, Bob Schwebke, Kirkwood, NY; Myrna McDonald, Greene, NY; Don Malling, Brackney, PA; Ted Scarinzi, CONKLIN, NY; Edward Tribe, DEPOSIT, NY

-----past corresponding members-----

-----Canada-----

c Ian F. Robertson, 26 ABLIENE DR. ISLINGTON, ONT.

M9A 2M8

Ian, produced a fanastic column '84-'85 reviewing products he came across, he must have had one of every Spectrum that ever came out.

Renato Zannese, Downsview, Ontario

M3M 2A6

Dan Pinko, C.6 SITE 242 R.R. 2, Parkesville, B.C.

VOR 2S0

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Roger E. Chester,	Colchester CT 06415	Robert Tisdale,	Ellisville MS 39437
Roy Wisti,	Voluntown CT 06384	Carl Green,	East Liverpool OH 43920
Harold F. Crandall,	Oxford CT 06483	Walter J. Hayes,	Parma OH 44130
Howard J. Chegvidden,	Dover NJ 07801	Jon J. Kaczor,	Brooklyn OH 44144
James E. Inacker,	Cherry Hill NJ 08003	Yearl E. Faunce,	Tipton IN 46072
Daniel M. Isaacson,	Brick NJ 08724	John Olinger,	Cumberland IN 46229
Cem Barut,	New York NY 10028	Don Walterman,	Sterling Hts. MI 48078
c Arthur Mortensen,	New York NY 10040	c David Pranitis,	Ann Arbor MI 48103
Edward Shaughnessy,	Staten Island NY 10304	Matthews D. Singer,	Westland MI 48185
Myles Cohen,	NEW YORK NY 10128	Richard Sofian,	Alma MI 48801
Jacob Groopman,	Long Island City NY 11106	Ivan Zachev,	Muskegon MI 49441
Sheldon Weinberg,	Brooklyn NY 11223	Bill Nemitz,	Ottunwa IA 52501
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c Hal Bellinson,	Troy NY 12180	A. Kahale,	Hoffman Estates IL 60195
Jess Wyder,	Fishkill NY 12524	James P. Kerr,	Dolton IL 60419
Ed Lanctot,	Norwood NY 13668	Charles E. Reise,	St. Louis MO 63117
Murray Zaber,	Maine NY 13802	Mike Holladay,	Lawrence KS 66044
Dane Stegman,	Akron NY 14001	Chris R. Crawford,	Gilmer TX 75644
Russ Gundlach,	Westfield NY 14767	Ray S. Alba,	Orange TX 77630
Richard S. Northrop,	Erin NY 14838	Dick E. Martin,	San Antonio TX 78233
Lester W. Oliver,	Johnstown PA 15902	Pete Fischer,	Tempe AZ 85281
Mark Whitney,	Tioga PA 16946	Claude Schleyer,	Albuquerque NM 87111
Crosby Boughton,	Susquehanna PA 18847	c Steve Ishii,	Cerritos CA 90701
Walter Pace,	New Milford PA 18834	Mark Miller,	Baldwin Park CA 91706
Darryl L. Butler,	Philadelphia PA 19105	James E. Craner Jr.	La Puente CA 91744
Virginia Lake,	Wilmington DE 19808	Stan Hooper,	BELL CA 90201
Stephen M. Cordi,	Baltimore MD 21210	Jim Millits,	San Marcos CA 92069
Peter Geller,	Annadale VA 22003	Al Johnson,	Seaside CA 93955
P. William Barnhart, Jr.	Falls Church VA 22042	Jack Dohany,	Redwood City CA 94061
Robert Lowe,	Arlington VA 22203	Orville Sanders,	Milpitas CA 95035
William E. Walker,	Huntington WV 25705	Robert Stoops,	Manteca CA 95336
John Constantine,	CHAPEL HILL NC 27514	Ben McLuckie,	Eugene OR 97401
c Charles Day,	Gastonia NC 28052	Ronald Ranc II,	APD NY 09057
Laurie Futrell,	Tucker GA 30084	Urouse Q. William, J r.	APD NY 09123-5370
G.T. Cook Jr.,	Gainesville FL 32601	c Bill Pierson,	APD NY 09069
Don Berry,	Orlando FL 32822	David J. Harris,	APD SF 96301

Anyone wishing to contact any of the above, send me a postcard with your return address, any message, and the name of the person you wish to contact, I will forward the card with the address in our files. If the person wishes to make contact with you it will be up to them.

We still have a lot of items for sale left over from the Garage Sale in the last newsletter, if interested, write or call, I 'll have special prices on what's left, like the Zebra dual disk system, 2050 MODEM, ZX80, Alphacom printer, and hardware and software.

This is our swap list, we wish all the best of luck and thanks for the years of swaps, it has been great to know ya, and I hope we'll continue through SNUG. Thank you to the groups who have continued a swap with us even after our newsletter shutdown.

SINC-LINK TORONTO T/SUG, 14 Richome Crt, Scarborough, ONT M1K 2Y1, CANADA  
 LISTING-LONG ISLAND STUG, 5 Peri Lane, Valley Stream NY 11581  
 THE PLOTTER-CCATS, 1419 1/2 7TH STREET, OREGON CITY OR 97045  
 VANCOUVER SINCLAIR UG, 2006 HIGHVIEW PL, PORT MOODY, BC V3H 1N5 CANADA  
 CAPITAL AREA TSUG, PO BOX 11017, Takoma Park, MD 20913  
 THE RAMTOP c/o James Dupuy, 6514 Bradley Ave (Down), Parma, Ohio 44129  
 SMUG BYTES, PO BOX 101, BUTLER, WI 53007  
 SVSTUG-Timelinez-Sinlink, % American Micro Systems, 2175 Aborn Rd #262, San Jose, CA 95121  
 Indiana TSUG, 513 E. Main Street, Peru, IN 46970  
 Bill Harmer, OHTSUG, 97 Ruskin St, Ottawa, Ontario K1Y 4B3 Canada  
 CATUG - C/O Bob Swoger, 613 Parkside Circle, Streamwood, Illinois 60107  
 QXL JOURNAL, 2025 O'Donnell Drive, Las Cruces, NM 88001  
 The HACKER - TSUG of Las Vegas, 2345 Moorpark Way, Henderson, Nevada 89015  
 PACC TALK, POB 6440, Pittsburgh, PA 15212  
 Timex/Sinclair SIG, Joyce Blaho, 971 Fellsway, Medford, MA 02155  
 Bill Ferrebee, 749 Hill St. #6, Parkersburg, WV 26104  
 Jack Barone CDTSCC, 141 Ontario Street, Albany, NY 12206  
 Bill Jones UPDATES, 1317 Stratford Ave., Panama City, FL 32404  
 SWYM c/o Robert Cazares, 118 N.W. 84th Street, Seattle, WA. 98117-3044  
 c Warren Fricke, 273 Canton Street, Depew, NY 14043 - Western NY TSUG

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 This and that.....tried the program from Toronto TSUG, the MSDOS disk reader and it did work on the 2068/LKDOS/Oliger set up. It took a little playing around with start addresses on the reader (my own) of the saved MSDOS files to my LKDOS disks, and read my homework from my Pascal course two years ago. Also while trying to find this disk, an Oliger disc went thru the MSDOS reader and it worked fine! For a while I couldn't make head or tail of the letters, numbers and what all, then Don Lamens name came across, with his icon program. Read in the Vulcan "Computer Buyer's Guide" of a TS1000/LKDOS user who wrote a program to read MSDOS files. The magazine is \$15.95 a year like what Computer Shopper used to be, write 'em at POB 7062, Atlanta, GA 30357-0062

Have had the Laser XT a couple of weeks, and having a ball with it. Took it to the June meet, and let all see what's happen'. Brought a word processor for \$5.88, and worth every penny. Connecting a spare 5.25" drive is the first project once this newsletter is in the mail. The one drive is ok for Sincliar but a drag with most programs for a 512K memory. Got into arcing and unarcing files, unarced one file, and it took two discs just for the one file. Running into a lot of shareware for the XT, Galaxy and As easy as for starters. Galaxy is a wordstar clone and As Easy is a 1 2 3 clone. Have spent a lot of time learning the spreadsheet program, and using library books have been able to get around on them. MSDOS book is thick and rich, and mostly beyond me. The other MSDOS users are still talking a different language. If this sounds to good to be true, well, the Laser machine is good but limited for expansion, if you can afford more, buy the most machine for the buck, it may save you headaches in the future. This machine will be useful as a demo machine at meets, and possibly a teaching machine for how to use software.

*No matter what anyone else thinks, the MS-DOS machines are great, but the ole TS doorstops have something more, like soul or friendliness, not cold and impersonal...*